



കേരള സർക്കാർ  
Government of Kerala  
2014



Regn. No. KERBIL/2012/45073  
dated 5-9-2012 with RNI  
Reg. No. KL/TV(N)/634/2012-14

# കേരള ഗസറ്റ് KERALA GAZETTE

ആധികാരികമായി പ്രസിദ്ധപ്പെടുത്തുന്നത്  
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## PART III Stores Purchase

### Fire and Rescue Services Department

#### e-TENDER NOTICE

No. F2-15575/2014/KFRS-1. 26th November 2014.

e-Tenders in two cover system are invited from competent dealers for the supply of 15 Nos. of Air Lifting Bag (Pneumatic Lifting Bag) with respective Specifications to this Department. The tender is to be submitted as e-tenders through <https://etenders.kerala.gov.in>. Since this is an e-tender, only those bidders who have enrolled in the above portal with their own digital signature certificate (DSC) can participate in the tender.

e-tender document and other details can be obtained from the above e-portal.

The tender has two parts.

1. Technical bid.
2. Financial bid (BOQ).

Tender No. with PAC—KFRS/e-Tender No. 32/2014-15—  
₹ 150 Lakh.

Closing date and time of e-tender—26-12-2014, 5 p. m.

Last date and time of receipt of e-tender—  
26-12-2014, 5 p. m

Date and time of opening of e-tender:

1. Technical bid—30-12-2014, 11 a. m.
2. Financial bid—31-12-2014, 11 a. m.

Cost of e-tender (online submission)—₹ 22,500 + VAT  
@ 5%.

Date upto which the rates are to remain firm for  
acceptance—31-3-2015.

EMD—1% of PAC in online payment.

Security Deposit—5% of total contract amount inclusive of EMD to be furnished as online payment.

Period of supply—Within 40 days of receipt of supply order.

The bidder desiring to take part in the bid shall log into <https://etenders.kerala.gov.in> and then select tender and initiate payment. Bidders will be directed to the payment gateway page of the State Bank of Travancore. There are two options-State Bank of Travancore SBT Net banking payment, payment through NEFT from other banks to the payment gateway of SBT.

For obtaining digital signature certificate (DSC) and necessary portal enrollment bidders can visit the website <https://etenders.kerala.gov.in>.

Tenders will be opened in the online presence of such tenderers or their authorized representatives who have logged in at the prescribed time of opening technical & financial bids. If the date fixed for opening happens to be a holiday/due to net failure the tenders will be opened in the next working day at the same time.

The price of the e-tender form shall be received only through online payment-SBT/SBT NEFT.

The cost should be quoted in Indian currency only.

The tender has two covers

- Technical cover
- Financial cover

The first cover ie: the technical cover shall be uploaded with the following document.

1. Scanned copy of complied specification of the product intended to supply.
2. Scanned copy of the agreement in the prescribed format in Kerala Stamp Paper worth ₹ 100.
3. Brochure of the product intended to supply.
4. Work experience certificate or other relevant details.
5. Scanned copies of the declaration by the bidder on Kerala Stamp Paper worth ₹ 100 to the effect that he/his partner/s or any of his directors is not involved in any Vigilance Case registered in connection with any supply made to this Department.

Soon on opening the technical bid of e-tenders the committee constituted to evaluate the technical aspects of the instrument will meet and scrutinize the technical specification of the equipment submitted with the e-tender.

The financial bid belonging to those dealers/suppliers who qualified in the technical bid of the equipment required by Kerala Fire & Rescue Services Department alone will be considered.

On finalization of the same, The Second cover ie. the financial bid of the concerned competent firm will be opened for consideration.

The originals of Complied Technical Specification, Agreement in stamp paper worth ₹ 100 declaration in stamp paper worth ₹ 100 shall be produced before the undersigned soon after the Financial Bid opening.

After opening the financial bid, financial evaluation is made only after consultation with the DPC and the decision of the DPC shall be final and will be uploaded in the financial evaluation field of the e-tender site whether the tender is financially admitted or not and thereafter the awarding of the contract.

The committee headed by the Commandant General, Kerala Fire & Rescue Services Department will scrutinize the tenders received and will recommend suitably. The decision of the Commandant General will be final for the award of the contract.

The right of acceptance or rejection of e-tender without assigning any reason is solemnly vested with Commandant General, Kerala Fire & Rescue Services.

The rules and regulations prescribed for e-tenders by the Government of Kerala shall be applicable to this e-tender also.

Details with respect to the e-tender and the details of specifications of the item to be purchased can be obtained from the e-tender website <https://etenders.kerala.gov.in>.

Any legal disputes that may arise in relation to the e-tender formalities will be restricted to the jurisdiction of Thiruvananthapuram District Court.

#### CONDITIONS

- |   |   |   |
|---|---|---|
| 1. Whether samples are essential  | : | Pamphlets, Photograph, Drawings etc. should be forwarded along with tender. |
| 2. Period with in which goods should be delivered   | : | Within 40 days from the receipt of supply order.                            |
| 3. Rates should be quoted including all taxes and transportation charge and three year AMC. | : | f.o.r. Thiruvananthapuram   |
| 4. Payment  | : | 90% Payment against delivery at Thiruvananthapuram in good condition.       |

5. Other Special Condition :
  1. A warranty of 24 months from the date of delivery of the item
  2. EMD 1% of PAC in online payment .
  3. Security Deposit 5% of total contract amount inclusive of EMD to be furnished on receipt of the Supply order as online payment as mentioned in the Notice inviting e-Tender.
  4. Any firm whose proprietor, Partner or Director is involved in a Vigilance Case registered in connection with a supply made to this Department earlier shall be barred from participating in this tender.
  5. Canvassing in any manners at any time shall disqualify of the tenderer.
  6. A Three years AMC after warranty period should be provided and the AMC amount also should be included in the quoted price.
- 1.4. The Pneumatic Lifting Bags all its accessories should and comply with all the requirements stipulated under EN 13731. The copy of the EN certificate must be enclosed with the tender.
- 1.5. The Pneumatic Lifting Bags should be type tested for artificial aging, 34 bar bursting pressure, dynamic fatigue loading, impact test, impulse loading, drop test, piercing test. and abrasion test and certificate to that effect should be attached with tender.
- 1.6. Each Pneumatic (air) Lifting Bags should be constructed of Kevlar reinforced nitrile rubber with 3 layers aramide reinforcement covering the entire top and bottom surface of each lifting bag.
- 1.7. Each Pneumatic Lifting Bags should be equipped with brass valve connection 1/8" NPT internal thread and vulcanized into the reinforced corner of bag to which a male connector of quick connect coupling should be threaded in. This male connector should be replaceable if it gets damaged.
- 1.8. Each Pneumatic lifting bags should have a center mark moulded into both sides of the lifting bags to centralize the bags when used in multiples. It should have reflective markings on the corners for easy identification when operating in the dark areas.
- 1.9. The lifting bags should have an inter locking non skid surface moulded into each side of the bags. A separate non skid ply which has been vulcanized separately is not acceptable.
- 1.10. The bags should be provided with a warning, and information labels. The information and the warning labels must be in English language and in pictograms for clear understanding. Also it should be marked with date of manufacturer and serial number in such a way that they cannot be erased without damaging the surface. Reflective stickers should be provided on all corners of the bags and a yellow centering cross should be marked in the centre of the bag.
- 1.11. The insertion height of deflated lifting bag should not be more than 25 mm.
- 1.12. The pneumatic Lifting Bags should have maximum working pressure of 8 bar and minimum bursting pressure of 32 bar.
- 1.13. The air bags should be chemical and some ozone resistant with carrying straps attached to 40 and 67 ton bags.
- 1.14. The Pneumatic Lifting Bags should be able to use in a temp. range of -30° c to +80° c.

### **Specification for Pneumatic Lifting Bags (Flat Type) and its Accessories**

1. *General*
  - 1.1. The manufacturing company of Pneumatic Lifting bags should be certified ISO 9001 company.
  - 1.2. The Pneumatic Lifting Bags should be portable and light-weight, and should be in set form, consisting of bags, hose assemblies pressure gauges, pressure reducers, safety valve, air bottle connector, and controller.
  - 1.3. The Pneumatic Lifting Bags should be in single and the lift capacities should be of 10 ton, 20 ton, 40 ton and 67 ton at 8-bar air pressure. The lifting capacity on higher side by 10% is allowed than the specified loads.

1.15. Each set of air bags should be supplied with following accessories.

1.16.1 Dual Dead man controller 8 bar, housed in a plastic housing with pressure gauge, pressure relief valve, and quick connect couplings. This controller should be suitable to inflate two bags at a time.

1.16.2.1 Pressure regulator 200/300 bar with finger tight connector and 2 mts. Hose with couplings

1.16.3 Inflation hoses should be polyester or thermo plastic of 10 meter length 2 nos., in different colours with suitable couplings to both sides to connect Dead man controller and air bags.

1.16.4 Shut-off hose with safety valve.

## 2. Technical Specifications of Air Bags

Description	10 Ton Capacity	20 Ton Capacity	40 Ton Capacity	67Ton Capacity
Working pressure	8 bar	8 bar	8 bar	8 bar
Capacity (min)	10 ton	20 ton	40 ton	67 ton
Insertion height	Max 25 mm	Max 25 mm	Max 25 mm	Max 25 mm
Lifting height	Min. 200 mm	Min. 275 mm	Min. 400 mm	Min. 450 mm
Dimensions (Approx)	500x550 mm	550x650 mm	780x780 mm	850x850 mm
Weight (Approx)	5 kgs.	8 kgs.	16 kgs.	18 kgs.

## 3. Lifting Height and Capacities

3.1 The tenderer must give the lifting capacities of each bag at various height at interval of 25 mm in numerical as well as graphical form along with tender.

## 4. Pressure Regulator

4.1 The pressure Regulator should be capable of reducing the pressure from 300 bar to 8 bar.

4.2 The pressure regulator should be provided with threaded quick connect couplings suitable to fit to normal BA air cylinder by hand without the use of any spanner.

4.3 The pressure regulator should be provided with two pressure gauges of suitable capacity to show the air pressure in the cylinder and set pressure.

4.4 The pressure regulator should be provided with pressure settings knob and safety valve with 2 mts. Hose with couplings to connect to Dual Dead man controller.

## 5. Dual Deadman Controller

5.1 The controller should be suitable to inflate two airlifting bags at a time.

5.2 All the air valves, pressure gauges, pressure relief valve, safety valve should be housed in a ergonomically designed plastic housing.

5.3 Each control lever should be dead man type and should be capable of being raised held and lowered by means of control lever.

5.4 The Pressure gauge should be provided for individual air outlet line with a Red line set at a 8 bar.

## 6. Hoses

6.1 All the hoses should be equipped with a quick connect/disconnecting male and female couplings, compatible with entire air lifting bag system.

6.2 The hoses should be minimum working pressure of 16 bar and should be capable of using temp. range of 40° C to + 80° C.

6.3 The hoses should be either of polyester or thermo plastic material.

6.4 The hoses should be resistant to Ultra Violet Light, change of colour, stress or cracking.

6.5 Two shut off hoses with built in safety valve should be provided to release the pressure between 8.5 bar and 10 bar.

7. One set of air bags will comprise of the following:—

Sl. No.	Description	Quantity
1	Lifting Bag 10 tons Capacity	1 No.
2	Lifting Bag 20 tons Capacity	1 No.
3	Lifting Bag 40 tons Capacity	1 No.
4	Lifting Bag 67 tons Capacity	1 No.
5	Pressure reducer	1 No.
6	Dual Controller with pressure gauges	1 No.
7	Air Hose 5 mtrs. with couplings	2 Nos.
8	Air Hose 10 mtrs. with couplings	2 Nos.
9	Single control Unit	4 Nos.
10	Shut off hose with safety valve	4 Nos.
11	Connection piece to connect two air cylinder	2 Nos.

8. *Operation and Maintenance Manual*:—The manufacturer should supply operation and maintenance manual with each set in English language.

9. *Guarantee*:—The manufacturer should be give the guarantee of min. 24 calendar months from the date of supply of goods against any manufacturing defects.

**COMPLIANCE STATEMENT**

A specification compliance statement in the following performa shall be submitted along with the offer and the statement should be complete in all aspect and should cover each and every details of specification.

**Specification compliance statement for  
Air Lifting Bag**

<i>Sl. No.</i>	<i>Detail of Departmental Technical Specification</i>	<i>Detail of the product offered</i>	<i>Deviation from Departmental Technical Specification, if any</i>
1			

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JOE KURUVILLA EASOW,  
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